-320 FIG. 1 A	
CACTCGTCTGCCCCTGGACTCCCGTCTCCTCTTCCTCCGGCTTCCCAGAGCTCCCTCC	CCTCC
-+++	GGGAGG
TTATGGCAGCATCCCGGCGCGCGCAGTTCTCAGCGGACGACCTCTCGGTCCG	SCTCCG
-+++++	CGAGGC
GGGCTGAGCCCAGTCCTGGATGTTGCTGAAACTCTCGAGATCATGCGCGGGTTTGGCTG	recere
-+	ACCGAC
crecreccescessiscences contracted	GCGGGA
GACGAAGGGCCGCCCACGGTGACGGTGGCGCGGCGGGGAGACGACGCGGCGGCGCCCT -80	CGCCCT
TGCTCAGTAGCCCCCCCCCCCCCCCCCGCATCCTGTTTCCTCGGAAGCCGTTTTGCTGC	TGCTGC
ACGAGTCATCGGGCGACGGGCCCGGGGCCCTAGGACAAGGAGCCTTCGGCAAACGACG -20	ACGACG

MATCH WITH FIG. 1B

MATCH WITH FIG. 1A FIG. 1B
TGCAGAGTTGCACGAACTAGTCATGGTGCTGTGGGAGTCCCCGCGGGAGTGCAGCTG
ACGTCTCAACGTGCTTGATCAGTACCACGACACCCTCAGGGGGCGCCCGTCACGTCGTCGAC
40 60 80
GACACTTTGCGAGGGCTTTTTGCTGGCTGCTGCTGCCCGTCATGCTACTCATCGTAGC
CTGTGAAACGCTCCCGAAAACGACGACGACGACGACGGCAGTACGATGAGTAGCATCG T L C E G F C W L L L L P V M L L I V A
100 120 140
ccecccectrcarccrcrrrrcccraccrccrraagraacrccaaaccccacccc
GCGGGCCACTTCGAGCGACGATGGAGGAATTCACTGACGGTTTGCGGGTGGCC
160 180 200
CTGGAATTGCTCTGGTTATGATGAGAAAATGATCTCTTCTTCTTGTGACACACAC
GACCTTAACGAGACCAATACTACTCTCTTTTACTAGAGAAGGAGACACTGTGGTTGTG
W N C S G Y D D R E N D L F L C D T N T 220 240
CTGTAAATTTGGGGAATGTTTAAGAATTGGAGACACTGTGACTTGCGTCTGTCAGTT MATCH WITH FIG. 1C

5 - C	++++++++	CKFDGECLRIGDTVTCVCQF	320
MATCH WITH FIG. 1B	TAAACTACCCCTTACAAATTCTTAACCTCTC	E C'L R I G D	300
Σ	++ ACATTTAAACTACC	CKFDG	280

GTTCACGTTGTTACTGATACACGGACACACCGAGGTTACCCCTCTCGATGGTCTTACT CAAGTGCAACAATGACTATGTGCCTGTGTGGCTCCAATGGGGAGAGCTACCAGAATGA NNDYVPVCGSNGE 360 GTGTTACCTCCGACAGGCTCCATCCAAACAGCAGAGTGAGATACTTGTGGTGTCAGAAGG CACAATGGACGCTGTCCGACGTACGTTTGTCGTCTCACTCTATGAACACCACAGTCTTCC С Y L R Q A A C K Q Q S E I L V V S 400 420 440 ATCATGTGCCACAGATGCAGGATCAGGATCTGGAGATGGAGTCCATGAAGGCTCTGGAGA TAGTACACGGTGTCTACGTCCTAGTCCTAGACCTCTACCTCAGGTACTTCCGAGACCTCT AACTAGTCAAAAGGAGACATCCACCTGTGATATTTGCCAGTTTGGTGCAGAATGTGACGA TTGATCAGTTTTCCTCTGTAGGTGGACACTATAAACGGTCAAACCACGTCTTACACTGCT MATCH WITH FIG. 1D

	£ >	en	<i>e</i> n 1		() (ረካ
ম	520 AGATGCCGAGGATGTCTGGTGTGTAATATTGACTGTTCTCAAACCAACTTCAATCC	TCTACGGCTCCTACAGACCACACATTATAACTGACAAGAGTTTGGTTGAAGTTAGG D A E D V W C V C N I D C S Q T N F N P 580	CCTCTGCGCTTCTGATGGGAAATCTTATGATAATGCATGC	GGAGACGCGAAGACTACCTATTACGTACGGTTTAGTTTTCTTCGTAGCAC L C A S D G K S Y D N A C Q I K E A S C 640	TCAGAAACAGGAGAAAATTGAAGTCATGTCTTTGGGTCGATGTCAAGATAACACAACTAC	AGTCTTTGTCCTCTTTTAACTTCAGTACAGAACCCAGCTACAGTTCTATTGTGTTGATG Q K Q E K I E V M S L G R C Q D N T T T
Q	CAA	E Z	ATC	S S	AAC	TTC
ပ	CTT	GAA F	AGC	TCG A	CAC	GTC T
	CAA	בונט בינט בינט	AGA	TCI	TAT	ATT
<u> </u>	AAC	i ji t	CAA	GTT	AGA	TCT
F G D	50 rcal	GAGT CAGT 620	AAT(TTTA(I I 680	rca.	AGT P
<u> </u>	56 PTC	AAG/ S 6,	CAN	SGT O	ATG.	rac.
لل م	TG	SACZ C	ATG(rac(c	rcg	AGC' R
U	GAC	CTC	GC7	ACG:	3661	2000
н	·	TAZ	FAAT	ATTY N N	YTT	4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.
1C D	'AA1	ZTT.N	GAT	ACT.	3.T.C.	S
.; U	TGI	CC	TAT	Y Y	CATK	TTAC M
FIC	40 GTG	+ ACAC V 600	TCI	TAG S 5	AGTC	ICAC V
TH	S TGT	CC	. AAS	X X X X	CAN	CTT
WI T	TGG	W W	2000	5000	SAT.	rita. I
rch E	GTC	CAG	GAT	CTA	BAA	i ii X
MATCH WITH FIG. 1C F G A E C D	GAT	CTA	TCI	AGA S	GAG	CTC E
0	~ GAG	TCTACGCCTCCTACAGACCACACACATTATAACTGACAAGAGTTTGGTTGAAGTTAGG D A E D V W C V C N I D C S Q T N F N P 680	GCT	to a s d c c c c c c c c c c c c c c c c c c	CAG	AGTCTTTGTCCTCTTTTAACTTCAGTACAGAAACCCAGCTACAGTTCTATTGTGTTGAT Q K Q E K I E V M S L G R C Q D N T T T
'n	300	A GGG	TGC	ACG	AAA	TTT
T S	520 GATC	+ CTA(D / 580	: CTC	+ GAGA L C 640	CAG	+ GTC Q
<u> </u>	AC	i E II	ŭ	Ü	Ē	IĀ

TIGATIGATICAGACTICTACCCGTAATACGTICTIGTCTAATACGICTCTTACGATIGIT AACTACTAAGTCTGAAGATGGGCATTATGCAAGAACAGATTATGCAGAGAATGCTAACAA $G \quad H \quad Y \quad A \quad R \quad T \quad D \quad Y \quad A$

MATCH WITH FIG. 1E

ATTAGAAGAAAGTGCCAGAACACCACATACCTTGTCCGGAACATTACAATGGCTTCTG TAATCTTCTTTCACGGTCTCTTGTGGTGTATGGAACAGGCCTTGTAATGTTACCGAAGAC L E E S A R E H H I P C P E H Y N G F C 820 CATGCATGGAAGTGTGAGCATTCTATCAATATGCAGGAGCCATCTTGCAGGTGTGATGC CATGCATGGAAGTGTGAAGATATTGCAGGAGCCATCTTGCAGGTGTGATGC THE G R C E H S I N M Q E P S C R C D A 880 920
TGGTTATACTGGACAACACTGTGAAAAAAAGGACTACAGTGTTCTATACGTTGTTCCCGG
ACCAATATGACCTGTTGTGACACTTTTTTTTCCTGATGTCACAAGATATGCAACAAGGCCCCCCCC
TCCTGTACGATTTCAGTATGTCTTAATCGCAGCTGTGATTGGAACAATTCAGATTGCTGT
AGGACATGCTAAAGTCATACAGAATTAGCGTCGACACTAACCTTGTTAAGTCTAACGACACACAC
CATCTGTGTGGTGGTCCTCTGCATCACAAGGAAATGCCCCCAGAAGCAACAGAATTCACAG
GTAGACACCACCAGGAGACGTAGTGTTCCTTTACGGGGTCTTCGTTGTCTTAAGTGTC

MATCH WITH FIG. 1E I C V V V L C I T R K C P R S N R I H R 1060 ACAGAAGCAAAATACAGGCACTACAATACAACAAGAGCGTCCACGAGGTT	TGTCTTCGTTTTATGTCCCGTGATGTCAAGCCTGTTATGTTGTTCTCGCAGGTGCTCCAA Q K Q N T G H Y S S D N T T R A S T R L 1120 1120 AATCTAAAGGAGCATGTTTCACAGTGGCTGACTACCGAGAGCTTGGACTACAATAC TTAGATTTCCCTCGTACAAAGTCACCGACCTGATGGCTCTCGAACCTGATGTTATAGATTATAGACAAAAGAATAAGACAAGAAGAATCTACTTCTACACATGTTTGCCTTTGCTTTTGTTGTTTTTTTT	1240 ATCTACACCAATGAAAACATGTACTACAGCTATATTTGATTATGTATG	TATCATATGTAACAGAACTACAAAAAGACATTACATTTATTT
MATCH WITH FI I C V V V L C I 7 1060 ACAGAAGCAAAATACAGGGCACTACA	TGTCTTCGTTTTATGTCCCGTGATGT Q K Q N T G H Y S 1120 AATCTAAAGGAGCATGTTTCACAGT TTAGATTTCCCTCGTACAAAGTGTCA 1 180 1200 AGTATTATAGACAAAAGAATAAGACA TCATAATATCTGTTTTCTTTTC	1240 ATCTACACCAATGAAAACATGTACTA -++++ TAGATGTTACTTTTGTACATGAT 1300 1320 ATAGTATACATTGTCTTTGATGTTTTT	TATCATATGTAACAGAACTACAAAA 1360 AAAAAAAAAAAA -+TTTTTTT

A L G Majority	A L G hBCp A L G hTGFap M L L TGFa95.aa	X Majority	S hBCp hTGFap G Y D TGFa95.aa	Majority	hBCp hTGFap T C V TGFa95.aa	Majority	hBCp hTGFap
2 A L x L L L x x	SLPLLLAL QLALF CWLLLLPV	X C Q X X X G X X X X X 50 50	ADGNSTR LENSTSP PTGWNCS	08	CLRIGDTV	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F G.	A S A G W T L C E G F	L X X C Q 2	I L H C V L A A C O Z T S L S D C O Z		TCKFDGE	1 1 1	rh FIG. 2B
- X X X X C S S	- R A A R C S G P S P S E S P R Q C S S	40		X X X L C X D -	N G L L C G D - L S A D - D L F L C D T N	100	MATCH WITH
) N W	1 M D 1 M V	\ I	23 LV 15 IV 31 IV A R	X = X -	39 - P E T 30 61 D R E N	1 1	49 34

TGFa95.aa	Majority	hBCp hTGFap TGFa95.aa	Majority hBCp	hTGFap TGFa95.aa	Majority	hBCp hTGFap TGFa95.aa	Majority	
MATCH WITH FIG. 2A F G. 2 B C Q F K C N N D Y V P V C G S N G E S Y Q N E C Y L R Q A A		P E E N C A A	160 170 180	1 SGETSOKETSTCDICQFGAECDEDAEDVWC	190 200 210			MATCH WITH FIG. 2C
91		49 34 · 121	56	41		56 41 181		

F1G. 2C	T T T Q S K R K G hBCp V S hTGFap R C Q D N T T T K S E D G TGFa95.aa C P X X Y X Majority	C P K Q Y H H I P C P E H Y C D X G Y X G A R	290 PSCVCDEGYIGARC PACVCHSGYVGARC PSCRCDAGYTGQHC	X X I X X L I A V X I V X I X MAJOLILY 320 L V I Q A I T A L V V V S I V A L A HTGFAP R F Q Y V L I A A V I G T I Q TGFA95.aa
MATCH WITH FIG.	56	65 H F S R	280 Y C I K G R C R F V F C F H G T C R F L F C M H G K C E H S	EXXDLXXLXXX 310 310 105 ERVDLFYLRGDR 83 EHADLLAVVAAS 301 EKKDYSVLYVAP

MATCH WITH FIG. 2D

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X X X X X E Majority	360	K E E hBCp A L I C R H E hTGFap R I H R Q K Q TGFa95.aa	Majority	hBCp hTGFap TGFa95.aa
XXIXXCVXXXCCX-XRKXCXRXXXXXXXE Majority		LVIGVCTCCHPLRKRRKKKKEEVLLITCVLICRHEILAV-ICVVLCITRKCPRSNRIHRQKQ	XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXX	S70 S80 EMET GKDITPINEDIEETNER KPSALLKGRTBCCHSETVV NTGHYSSDNTTRASTRLT
	•	134 113 331	·	157 142 357

Decoration 'Decoration #1': Shade with solid residues that match the Consensus exactly.